

AMENDMENTS TO THE SPECIFICATION

Please delete the section heading beginning at page 1, line 1.

Please delete the section heading beginning at page 4, line 24.

Please replace the paragraph beginning at page 5, line 19, with the following rewritten paragraph:

--Accordingly, it is an object of the present invention to produce an as-grown single crystal of calcium fluoride having a straight barrel part diameter of not 17 cm or more and having small internal strain and sufficiently small birefringence by the single crystal pulling method.--

Please replace the paragraph beginning at page 6, line 3, with the following rewritten paragraph:

~~--The present inventors have earnestly studied to solve~~ invention solves the above problems. ~~As a result, they first succeeded in by~~ producing a large-sized, as-grown single crystal of calcium fluoride having extremely small birefringence by a single crystal pulling method, ~~and accomplished the present invention.--~~

Please replace the paragraph which starts on page 6, line 23 and ends on page 7, line 2, with the following rewritten paragraph:

--Fig. 1 is a schematic view of a single crystal pulling apparatus ~~favorably~~ preferably used for producing the as-grown single crystal of calcium fluoride of the present invention.--

Please replace the paragraph beginning at page 13, line 12, with the following rewritten paragraph:

In the single crystal pulling apparatus of Fig. 1, the heat insulating wall 26 is extended to be upward longer than that in the single crystal pulling apparatus used for manufacturing a single crystal of silicon or the like ~~shown in Fig. 2~~. In addition, the heat insulating wall 26 surrounds (circularly encloses) a whole circumference from a lower end to

an upper end in the crucible 20, and furthermore, surrounds the side peripheral portion of a single crystal pulling region 38 provided thereabove.

Please replace the paragraph beginning at page 15, line 19, with the following rewritten paragraph:

--The pitch type graphite mold heat insulating material is preferably used particularly ~~preferably~~ because it can achieve a desired coefficient of thermal conductivity and is excellent in a-its resistance to a-the severe environment encountered in the pulling process and a-possesses excellent mechanical strength.--

Please replace the paragraph beginning at page 19, line 5, with the following rewritten paragraph:

--The graphite is preferably used particularly ~~preferably~~ because it can achieve a desired coefficient of thermal conductivity and is excellent in a-its resistance to a-the severe environment encountered in the pulling process and a-possesses excellent mechanical strength.--

Please replace the section heading on page 29, line 7, with the following section heading:

~~EXAMPLE~~EXAMPLES

Please delete the section heading on page 38, line 1.